Least Common Multiple (B)

Name: _____ Date: _____

Determine the least common multiple using the prime factors of each number.

1. 34 =
   58 =
   LCM =

2. 14 =
   63 =
   LCM =

3. 66 =
   8 =
   LCM =

4. 92 =
   64 =
   LCM =

5. 60 =
   72 =
   LCM =

6. 4 =
   98 =
   LCM =

7. 24 =
   88 =
   LCM =

8. 56 =
   54 =
   LCM =

9. 58 =
   46 =
   LCM =

10. 8 =
    38 =
    LCM =

Least Common Multiple (B)

Name: _____ Date: _____

Determine the least common multiple using the prime factors of each number.

1. $34 = 2 \times 17$
   $58 = 2 \times 29$
   $LCM = 2 \times 17 \times 29$
   $= 986$

2. $14 = 2 \times 7$
   $63 = 3^2 \times 7$
   $LCM = 2 \times 3^2 \times 7$
   $= 126$

3. $66 = 2 \times 3 \times 11$
   $8 = 2^3$
   $LCM = 2^3 \times 3 \times 11$
   $= 264$

4. $92 = 2^2 \times 23$
   $64 = 2^6$
   $LCM = 2^6 \times 23$
   $= 1472$

5. $60 = 2^2 \times 3 \times 5$
   $72 = 2^3 \times 3^2$
   $LCM = 2^3 \times 3^2 \times 5$
   $= 360$

6. $4 = 2^2$
   $98 = 2 \times 7^2$
   $LCM = 2^2 \times 7^2$
   $= 196$

7. $24 = 2^3 \times 3$
   $88 = 2^3 \times 11$
   $LCM = 2^3 \times 3 \times 11$
   $= 264$

8. $56 = 2^3 \times 7$
   $54 = 2 \times 3^3$
   $LCM = 2^3 \times 3^3 \times 7$
   $= 1512$

9. $58 = 2 \times 29$
   $46 = 2 \times 23$
   $LCM = 2 \times 23 \times 29$
   $= 1334$

10. $8 = 2^3$
    $38 = 2 \times 19$
    $LCM = 2^3 \times 19$
    $= 152$